

FIG. 1

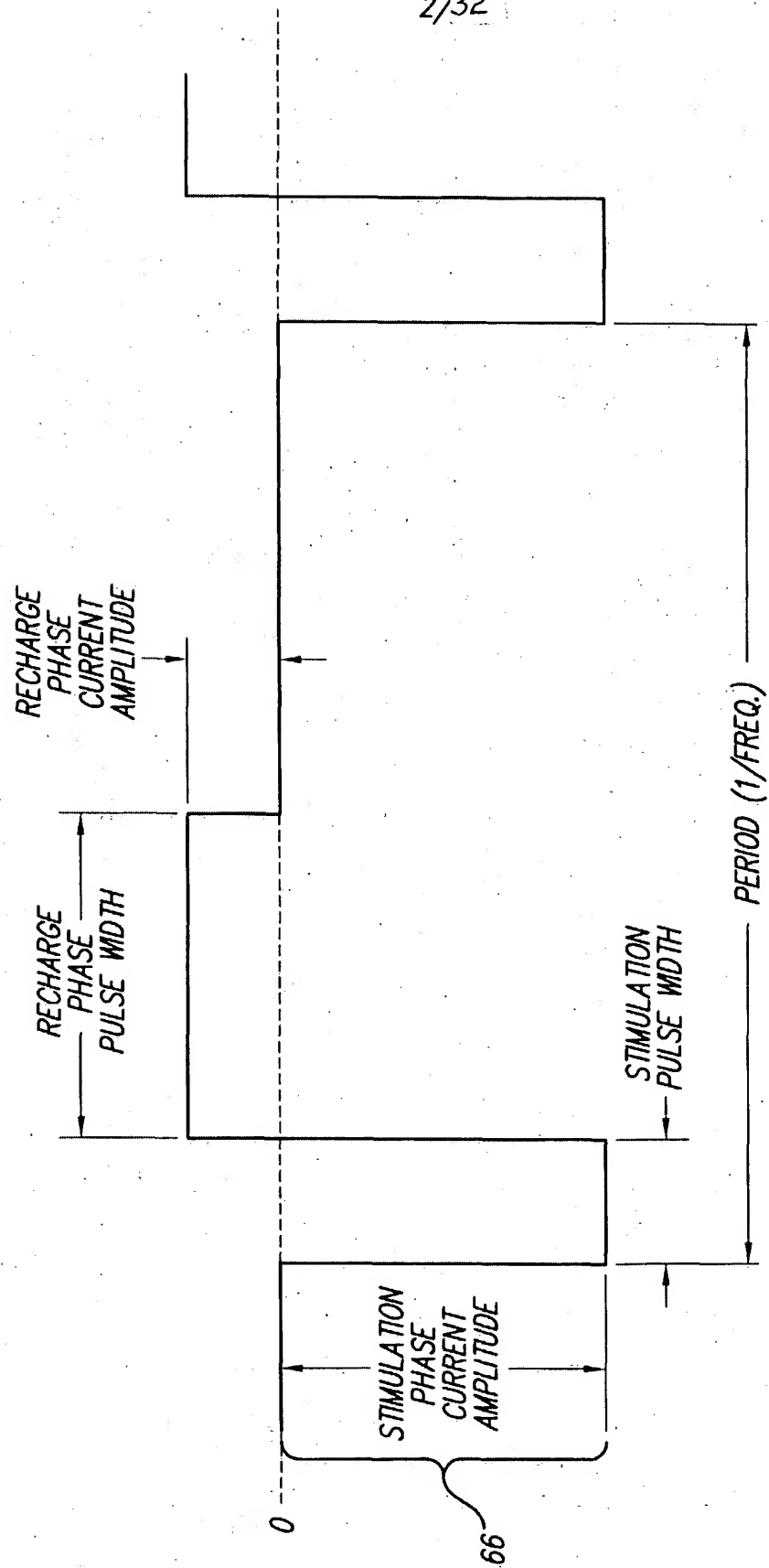


FIG. 2

FIG. 3-1

STIMULATION PARAMETERS					
PULSE PARAMETER	MINIMUM VALUE	MAXIMUM VALUE	INCREMENT	TOLERANCE	DEFAULT VALUE
STIMULATION ENABLE	DISABLED	ENABLED	N/A	N/A	DISABLED
STIMULATION AMPLITUDE	0 mA	10.0 mA	0.2 mA	GREATER OF ± 0.05 mA AND $\pm 10\%$	0.0 mA
BPB RECHARGE AMPLITUDE	0 μ A	620 μ A	20 μ A	GREATER OF $\pm 10\mu$ A AND $\pm 20\%$	0 μ A
PULSE WIDTH	50 μ sec	1550 μ sec	50 μ sec	$\pm 10\%$	50 μ sec
PULSE FREQUENCY (LOW RANGE)	0 pps	50 pps	1.0 pps	GREATER OF $\pm 12\%$ OR 0.6pps	0 pps
PULSE FREQUENCY (LOW MID-RANGE)	55 pps	225 pps	5 pps	$\pm 12\%$	0 pps
PULSE FREQUENCY (HIGH MID-RANGE)	250 pps	550 pps	25 pps	$\pm 12\%$	0 pps
PULSE FREQUENCY (HIGH RANGE)	625 pps	1125 pps	100 pps	$\pm 12\%$	0 pps
RAMP ON STEP SIZE	0.05 mA	0.4 mA	2x	$\pm 10\%$	0.05 mA
BURST MODE ENABLE	DISABLED	ENABLED	N/A	N/A	DISABLED

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STIMULATION PARAMETERS					
PULSE PARAMETER	MINIMUM VALUE	MAXIMUM VALUE	INCREMENT	TOLERANCE	DEFAULT VALUE
BURST MODE "ON" TIME (SHORT RANGE)	0 sec	25.8 sec	0.41 sec	±10%	0 sec
BURST MODE "ON" TIME (MID RANGE)	26.4 sec	416 sec (6.93 min)	6.6 sec	±10%	0 sec
BURST MODE "ON" TIME (LONG RANGE)	420 sec	6,615 sec (1.84 hr)	105 sec	±10%	0 sec
BURST MODE "OFF" TIME (SHORT RANGE)	0 sec	25.8 sec	0.41 sec	±10%	0 sec
BURST MODE "OFF" TIME (MID RANGE)	26.4 sec	416 sec (6.93 min)	6.6 sec	±10%	0 sec
BURST MODE "OFF" TIME (LONG RANGE)	420 sec	6,615 sec (1.84 hr)	105 sec	±10%	0 sec
PATIENT MIN. AMPLITUDE (REGISTER: NOT USED DURING STIMULATION)	0.2 mA	PATIENT MAX. AMPLITUDE	0.2 mA	N/A	0.2 mA
PATIENT MAX. AMPLITUDE (REGISTER: NOT USED DURING STIMULATION)	PATIENT MIN. AMPLITUDE	10.0 mA	0.2 mA	N/A	0.2 mA

FIG. 3-2

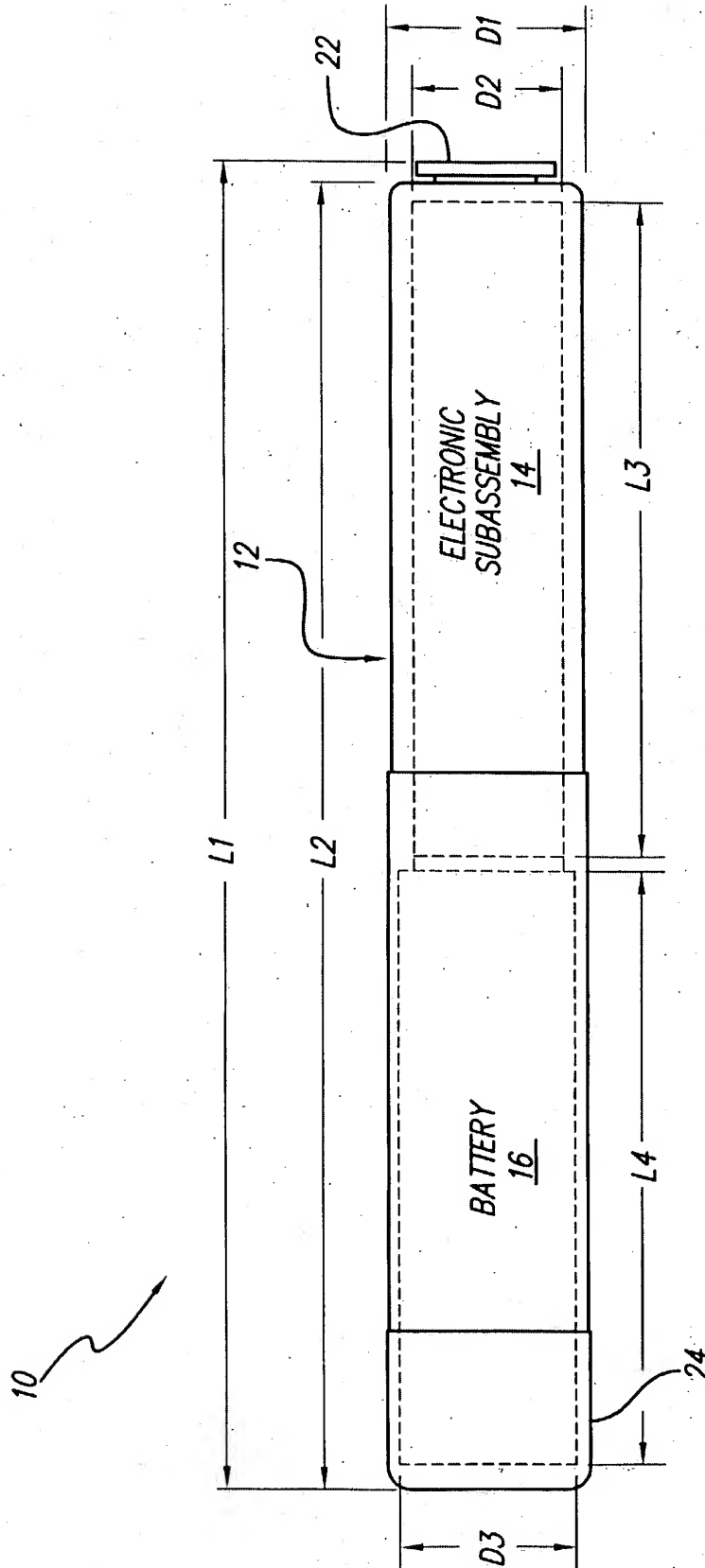


FIG. 4

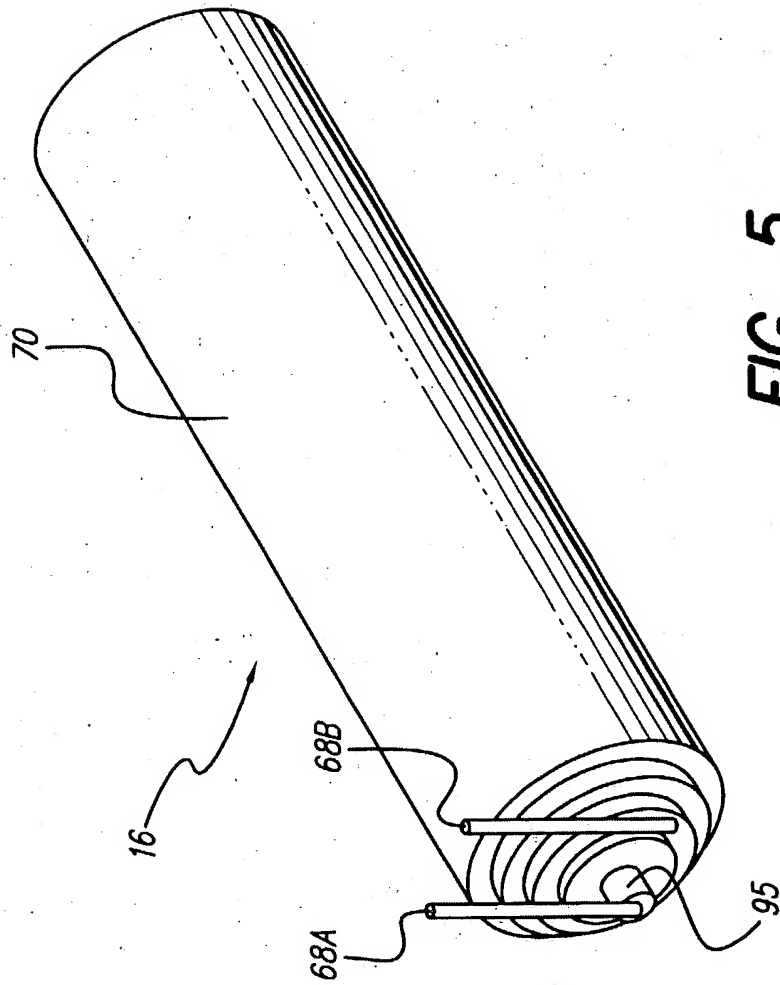


FIG. 5

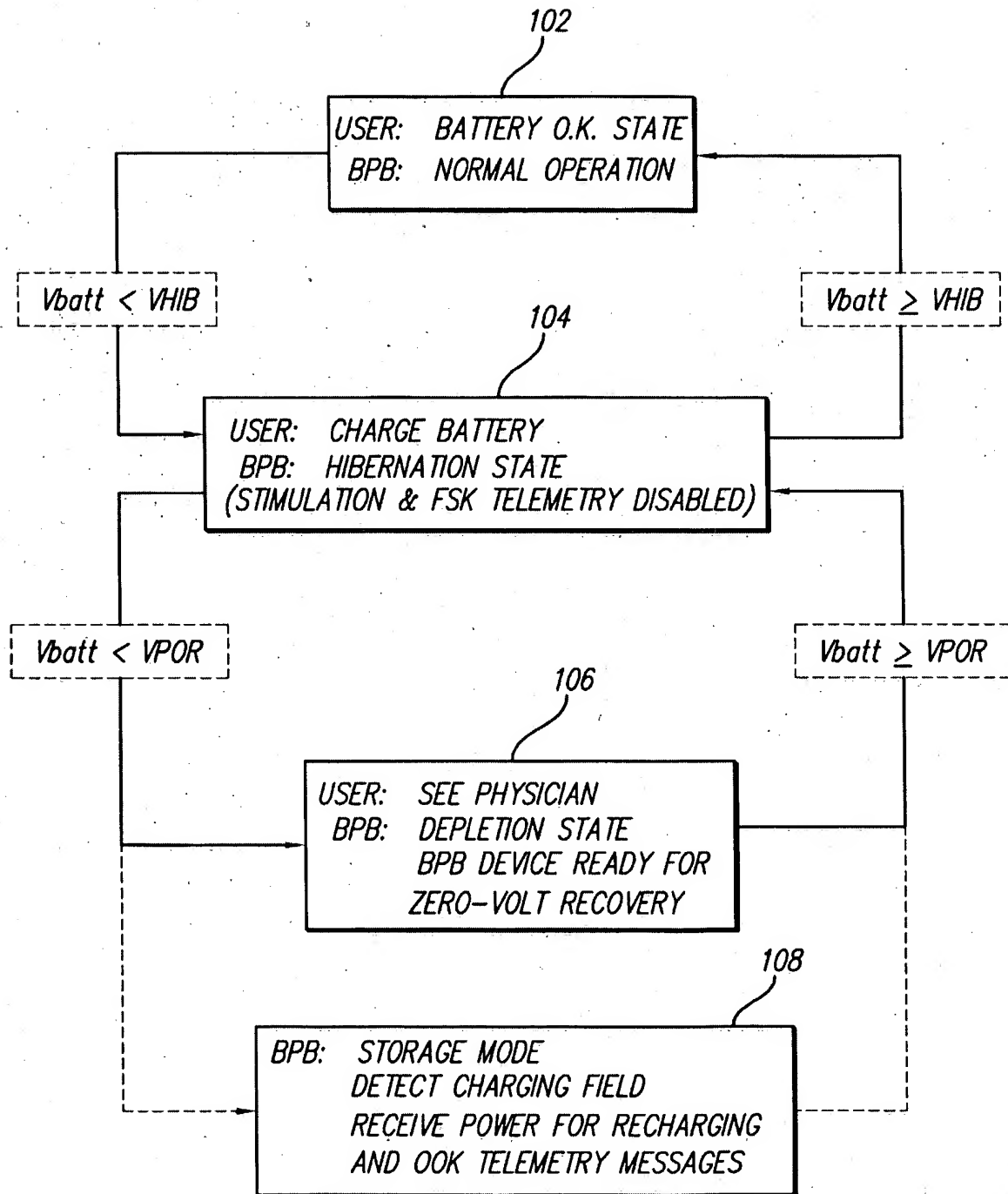
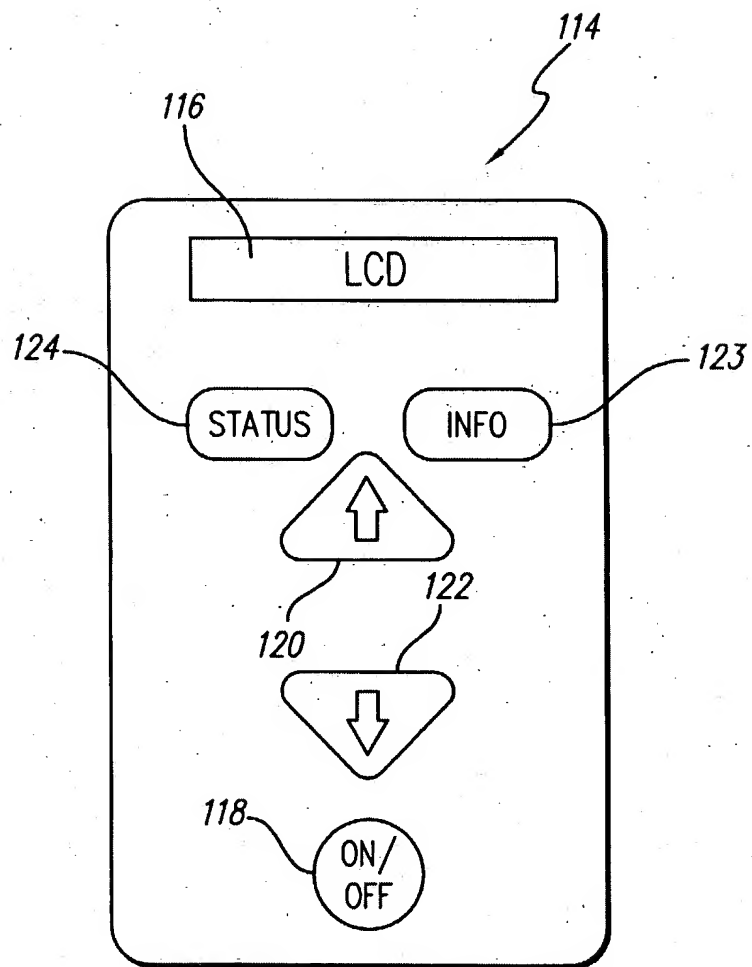


FIG 6

**FIG. 7**

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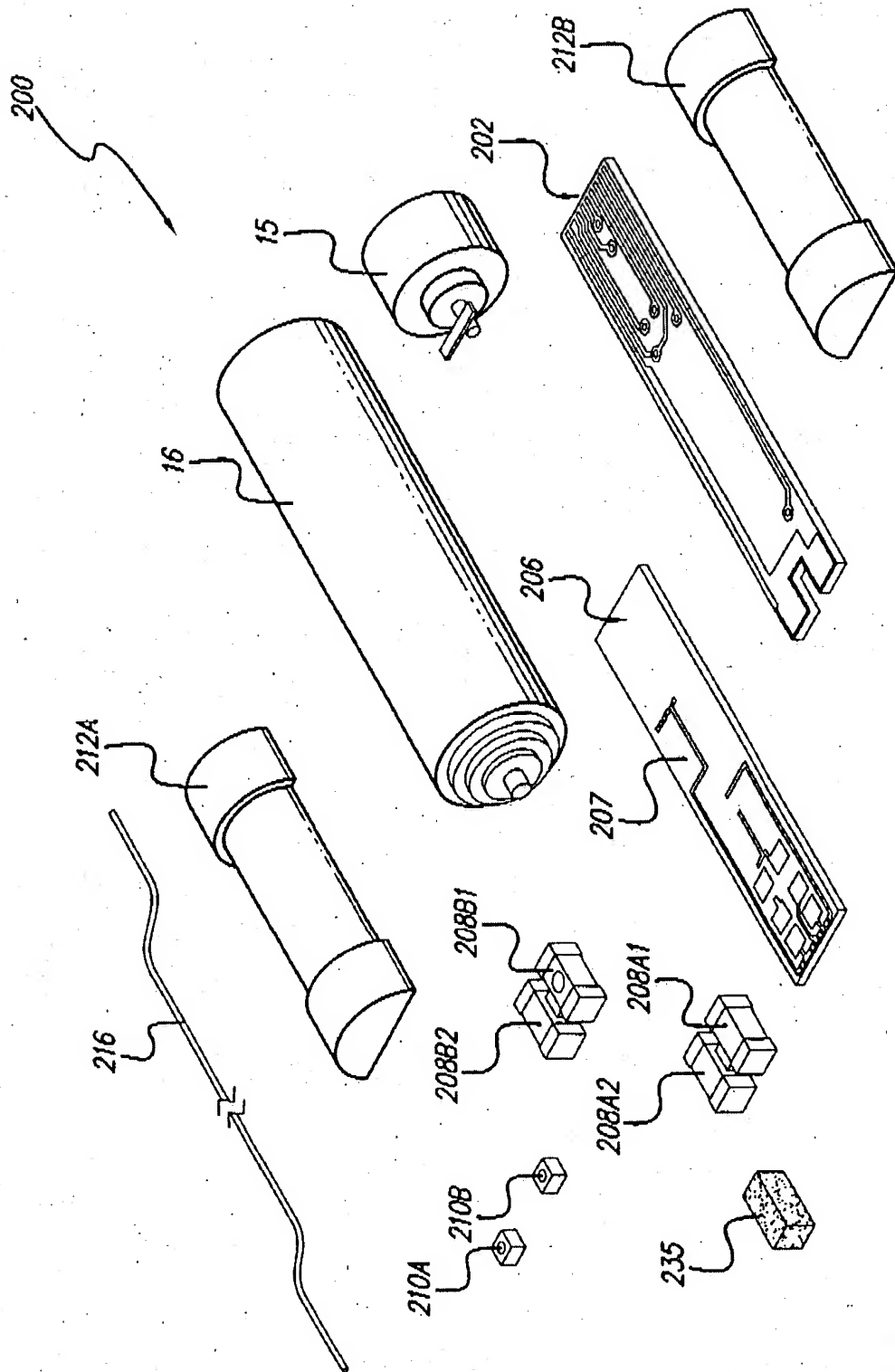


FIG. 8

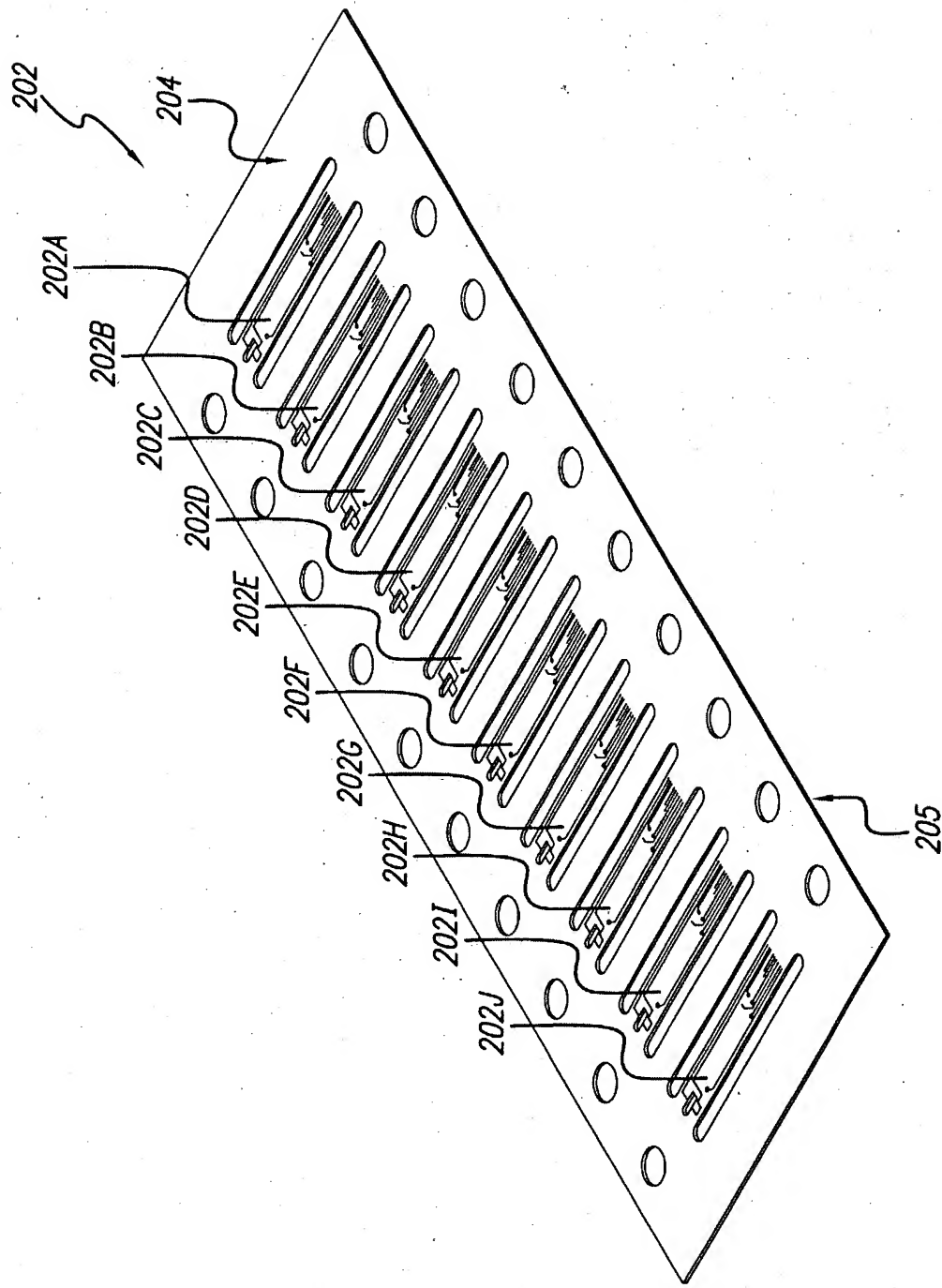
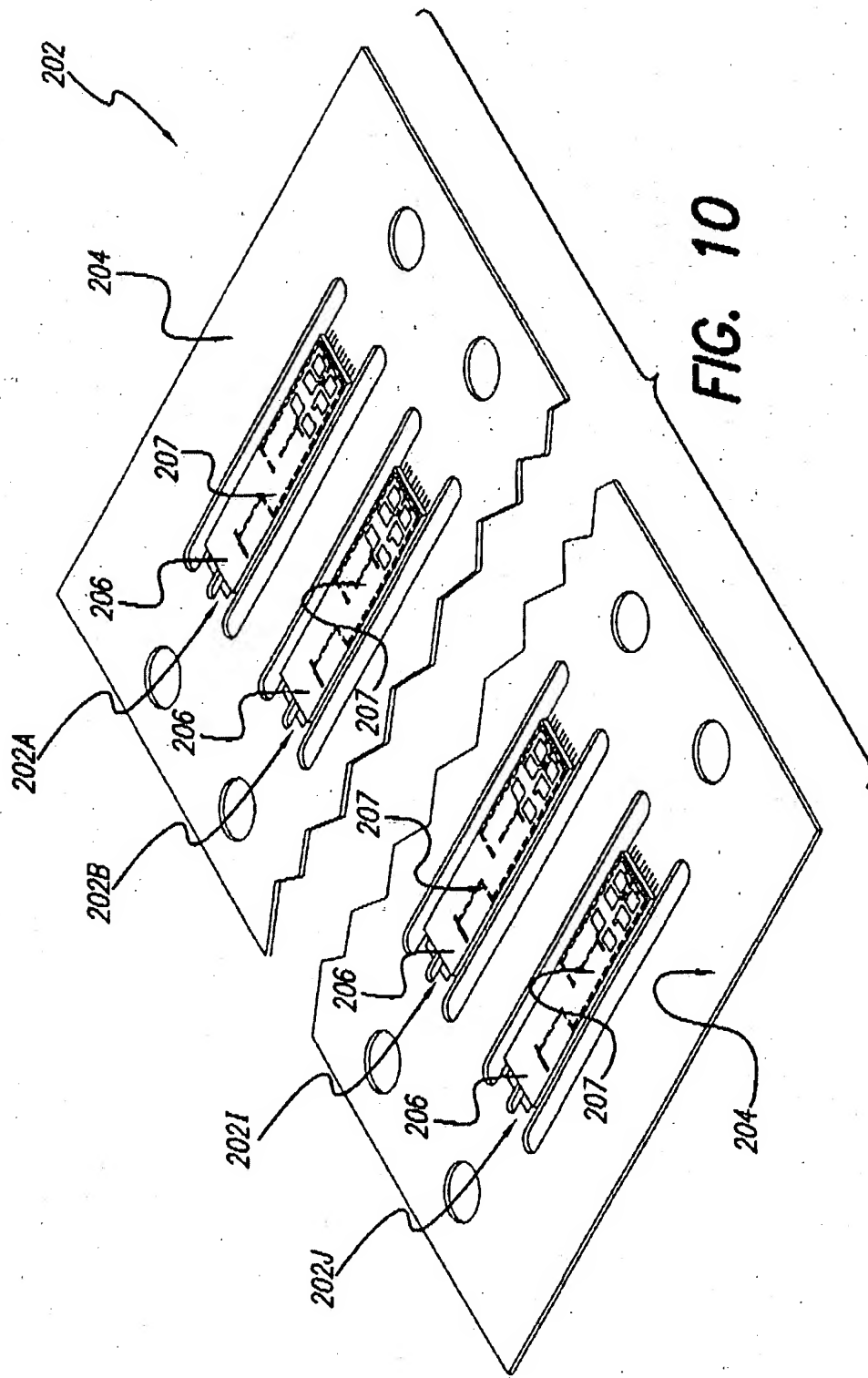


FIG. 9



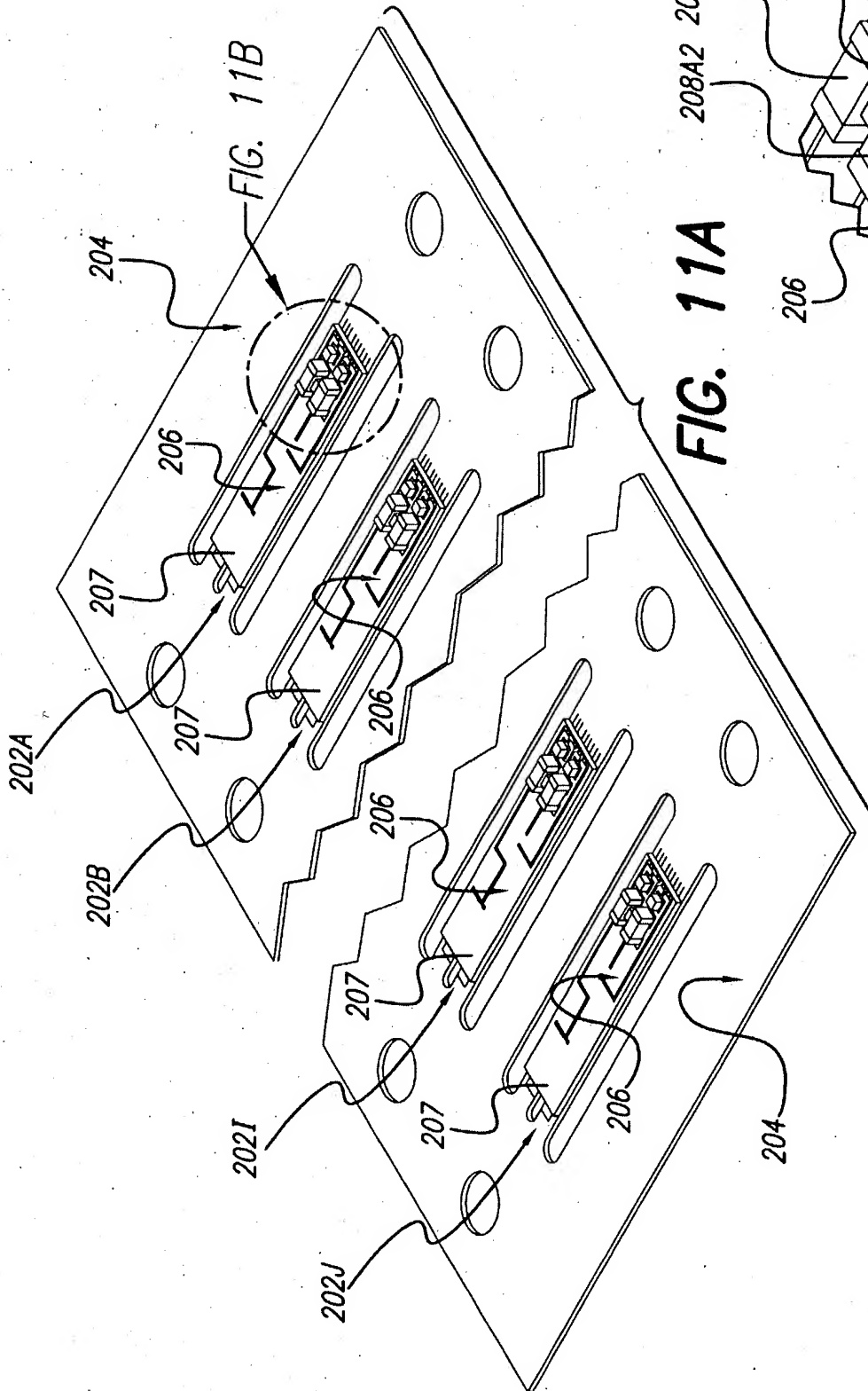


FIG. 11A

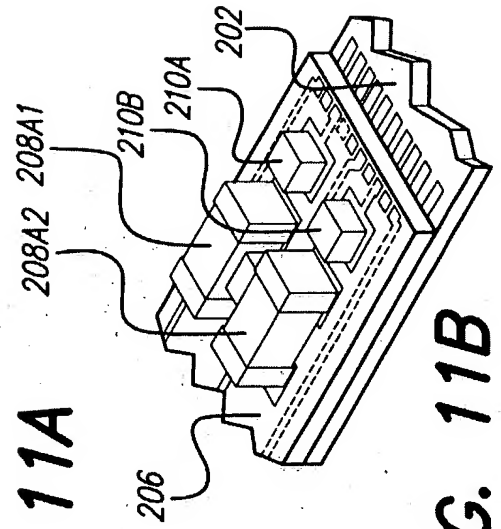
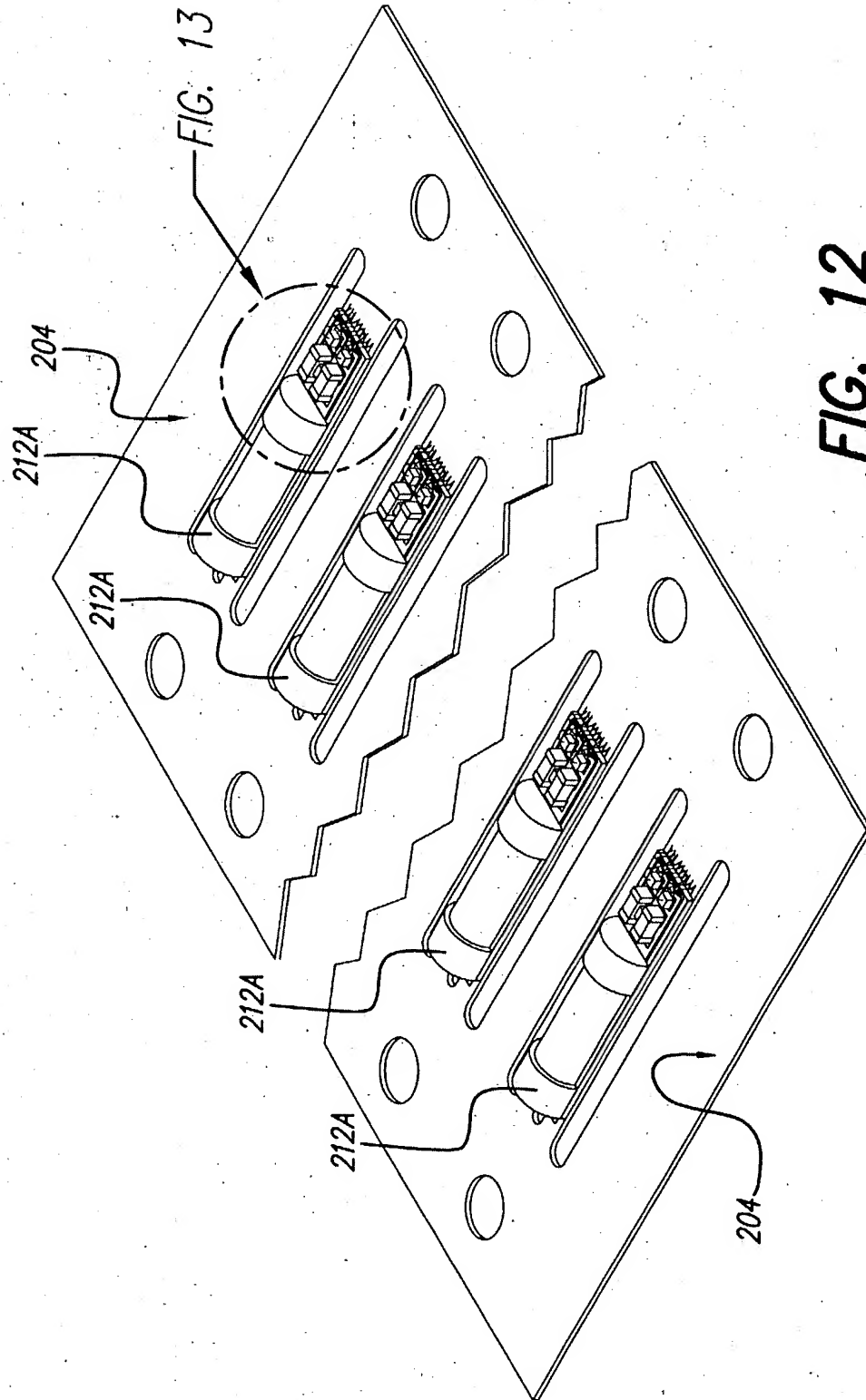


FIG. 11B



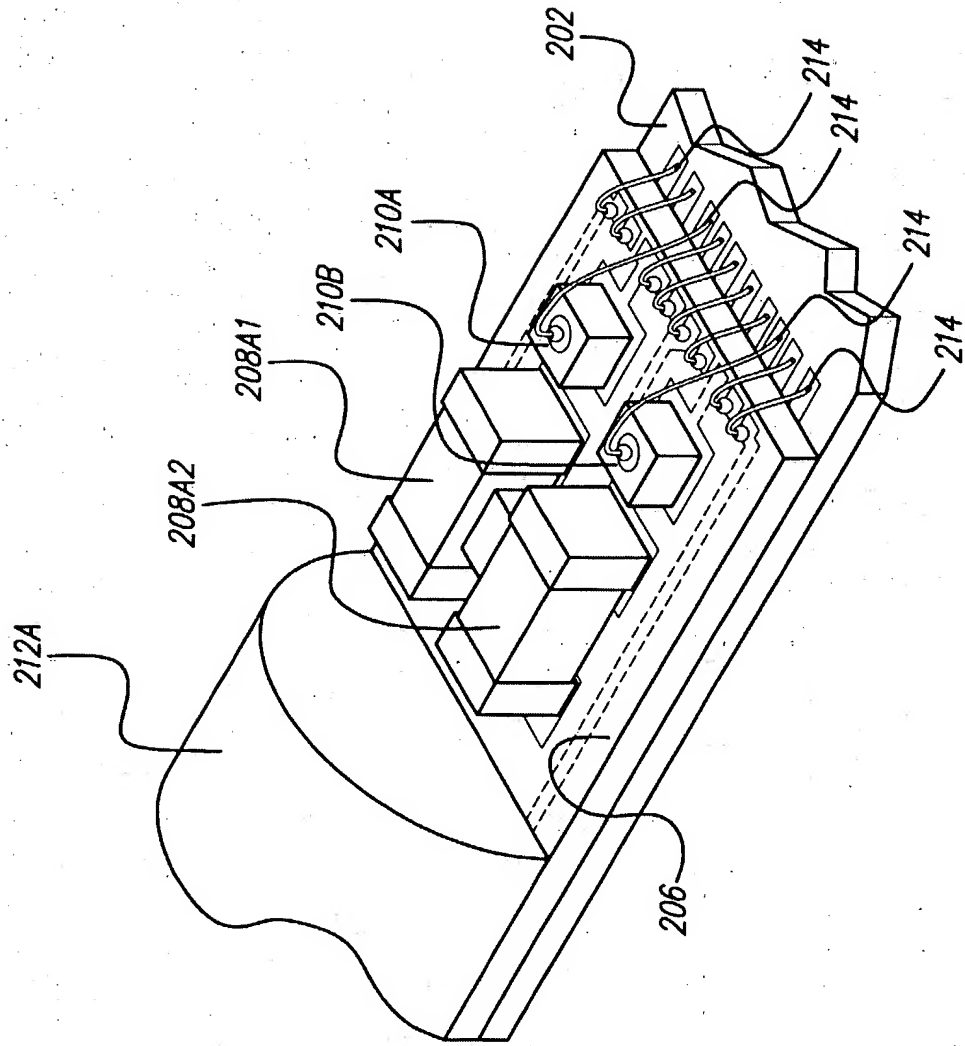


FIG. 13

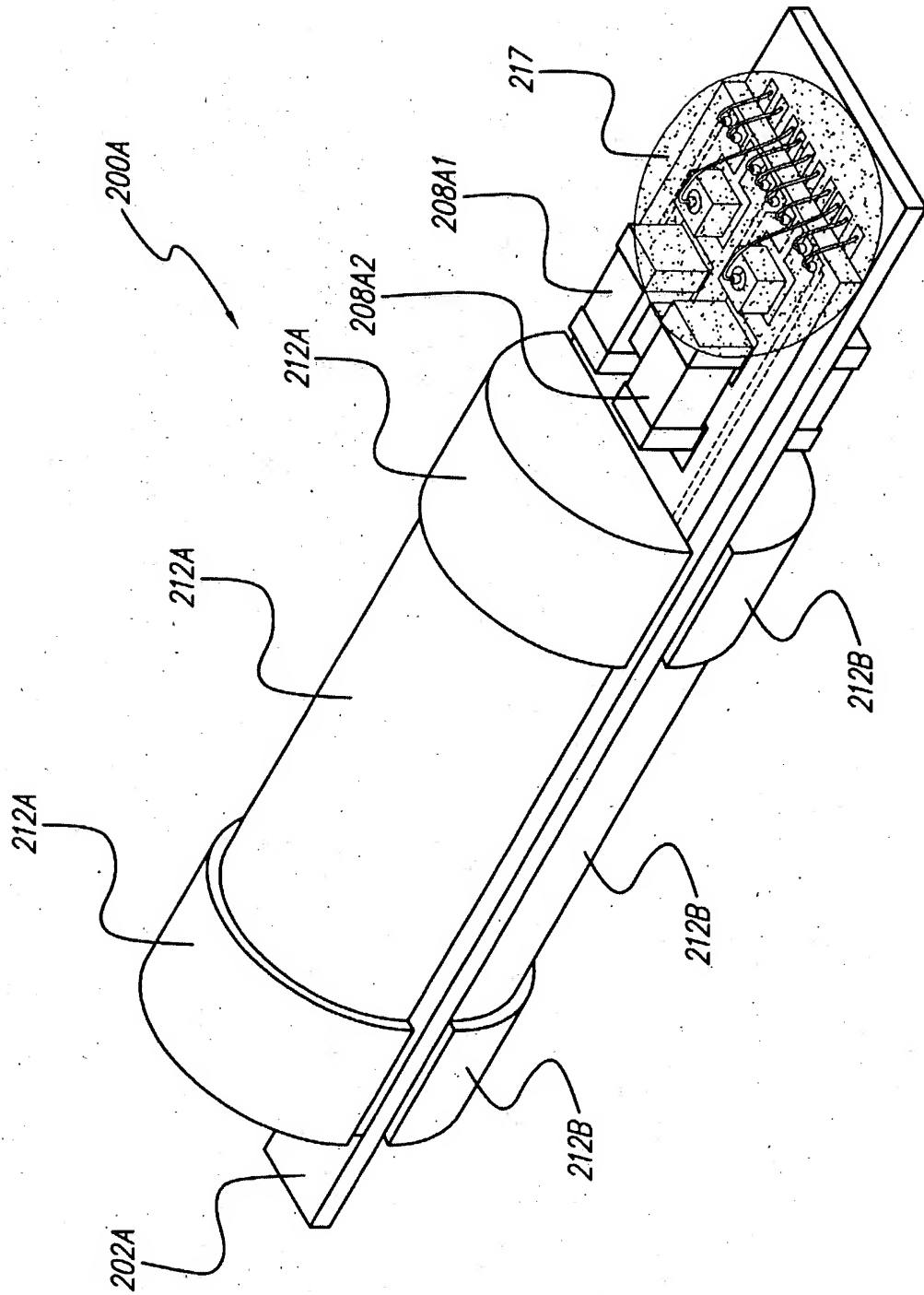


FIG. 14A

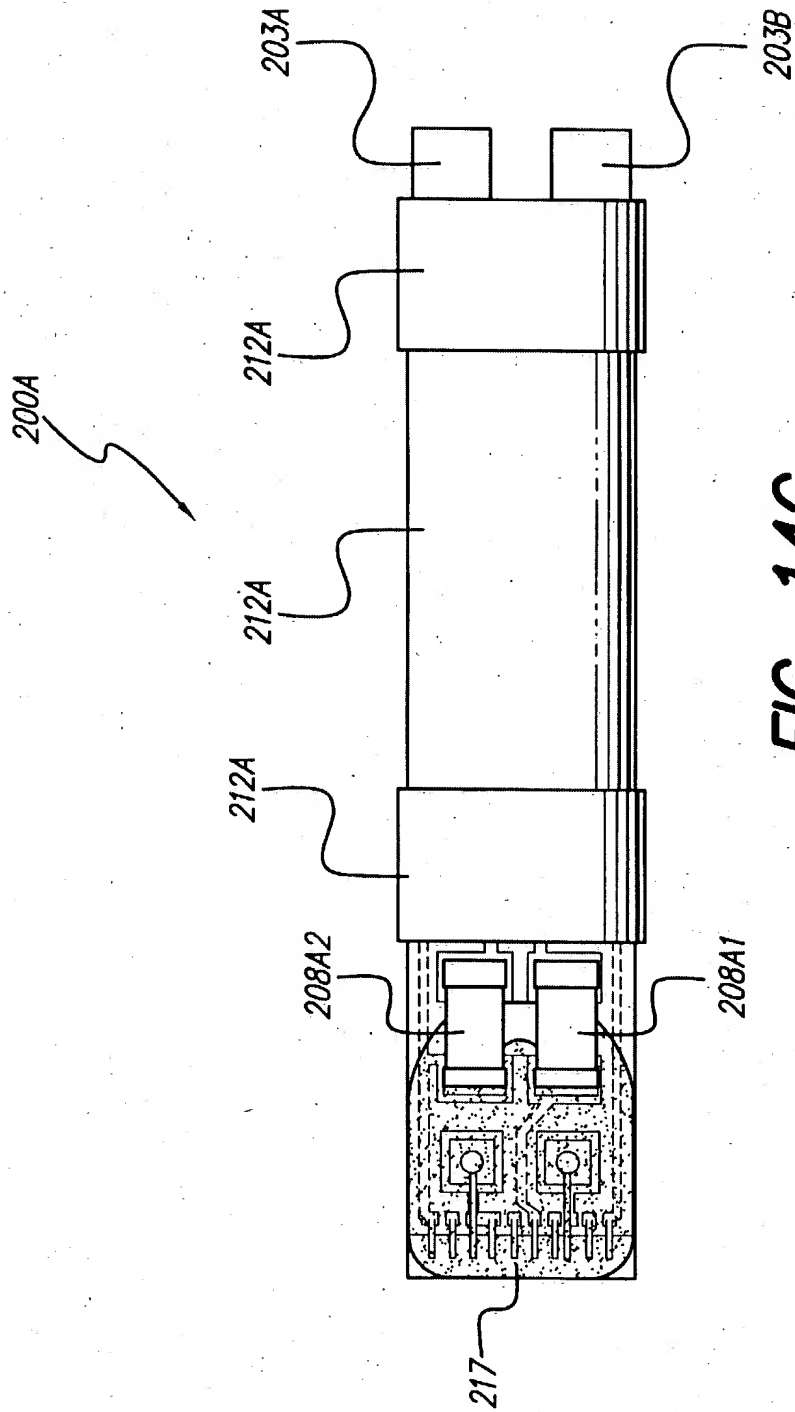


FIG. 14C

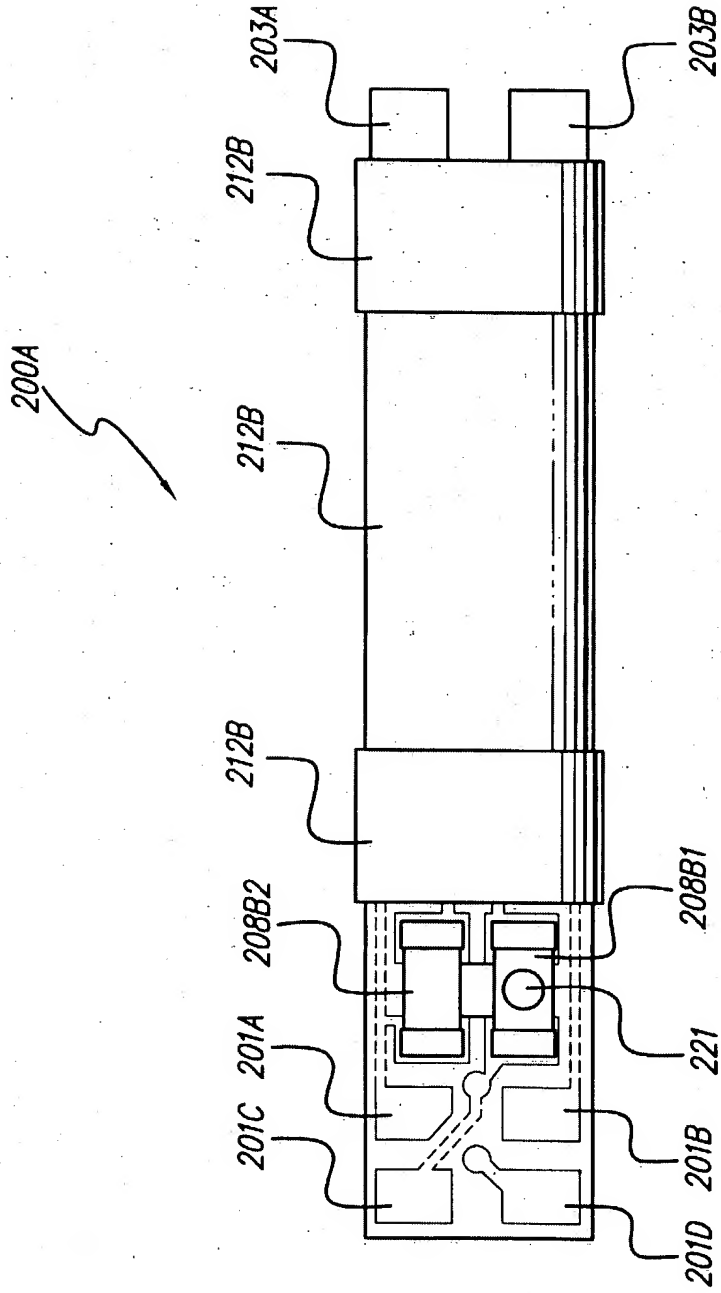


FIG. 14D

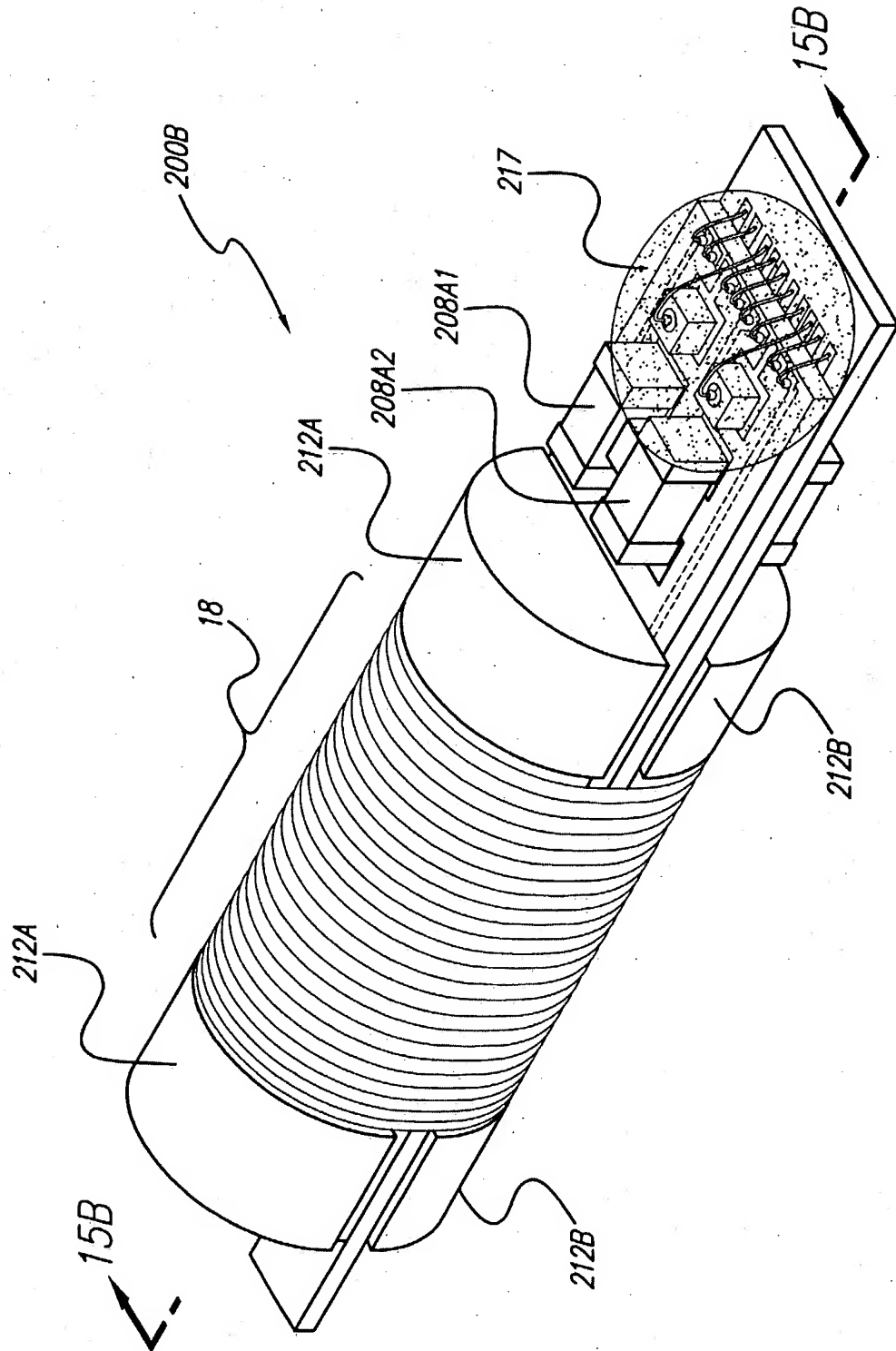


FIG. 15A

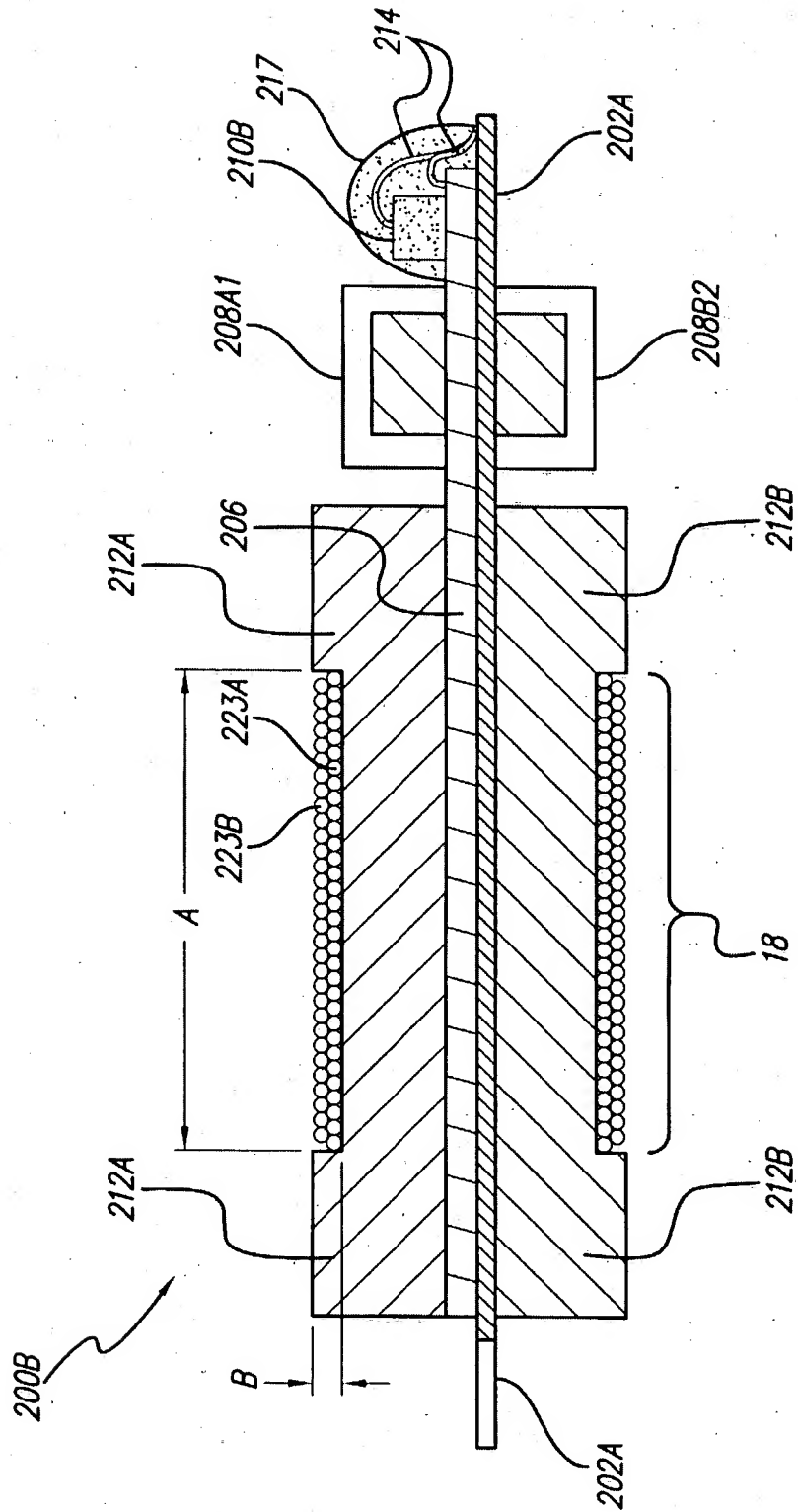


FIG. 15B

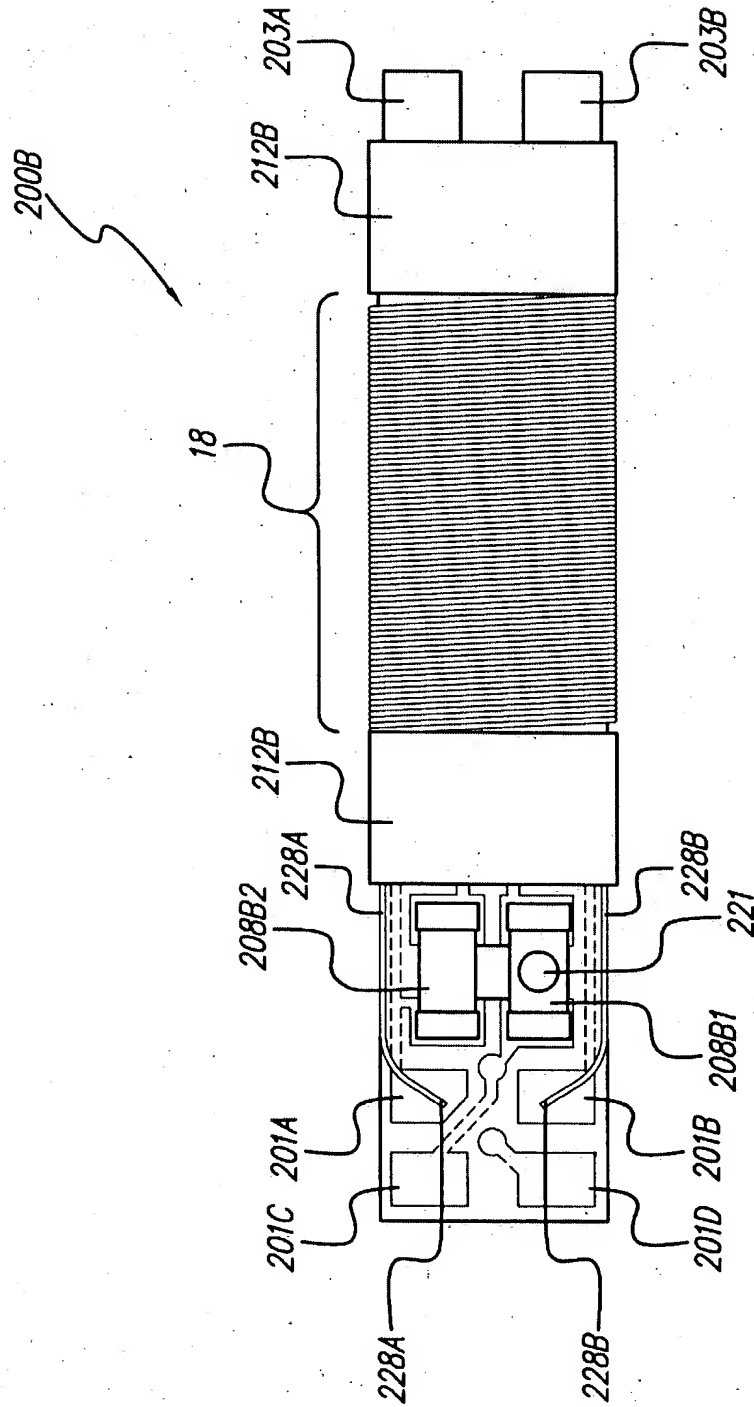


FIG. 15C

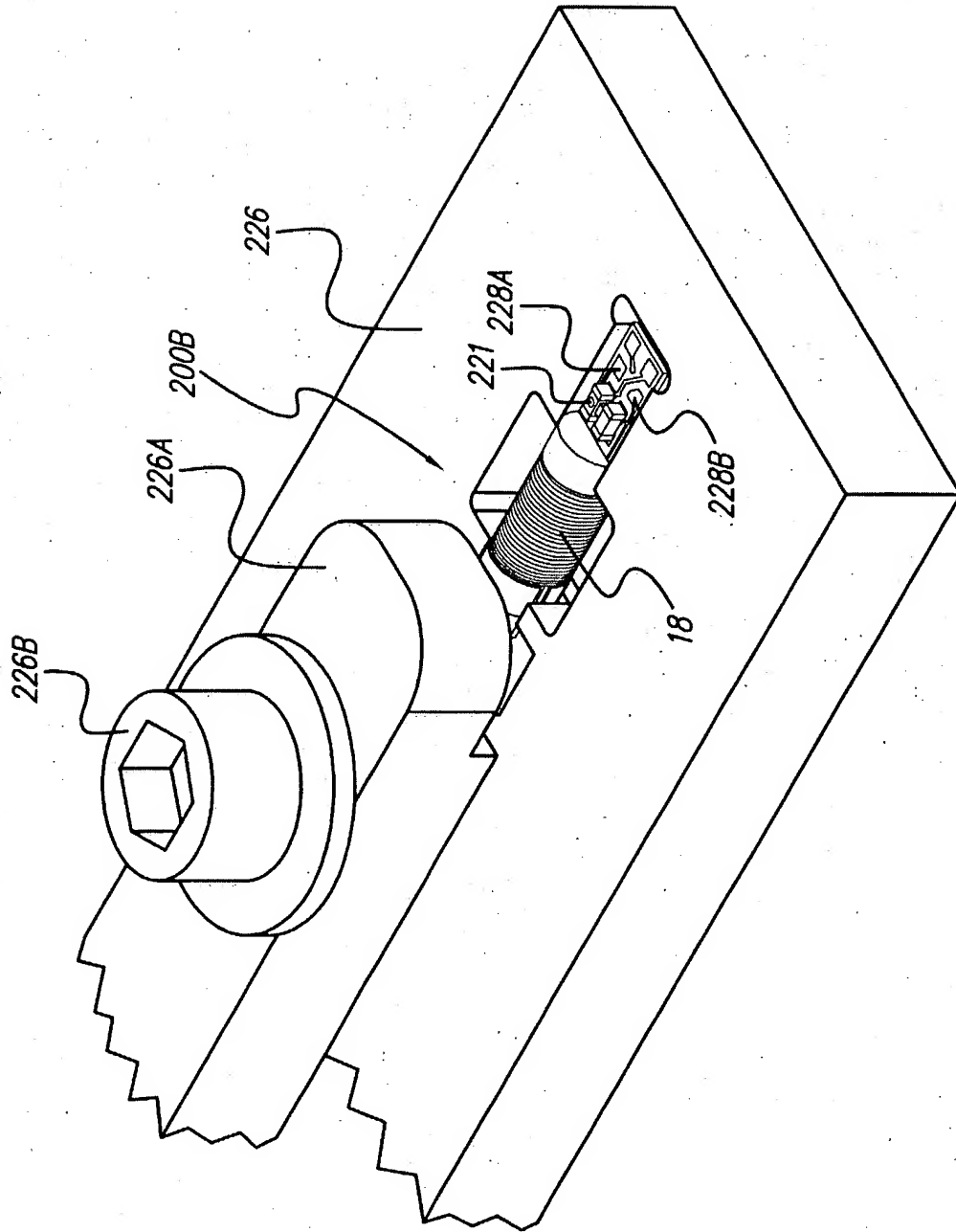


FIG. 16

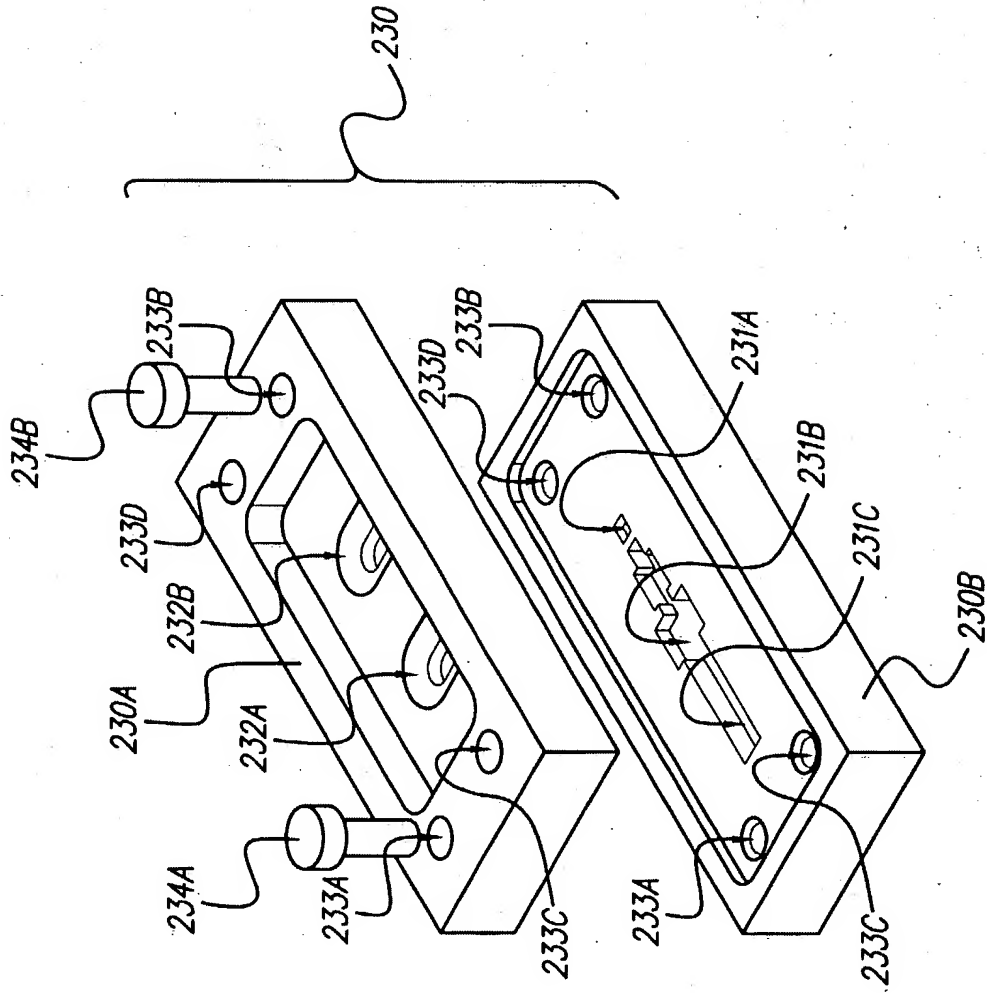


FIG. 17

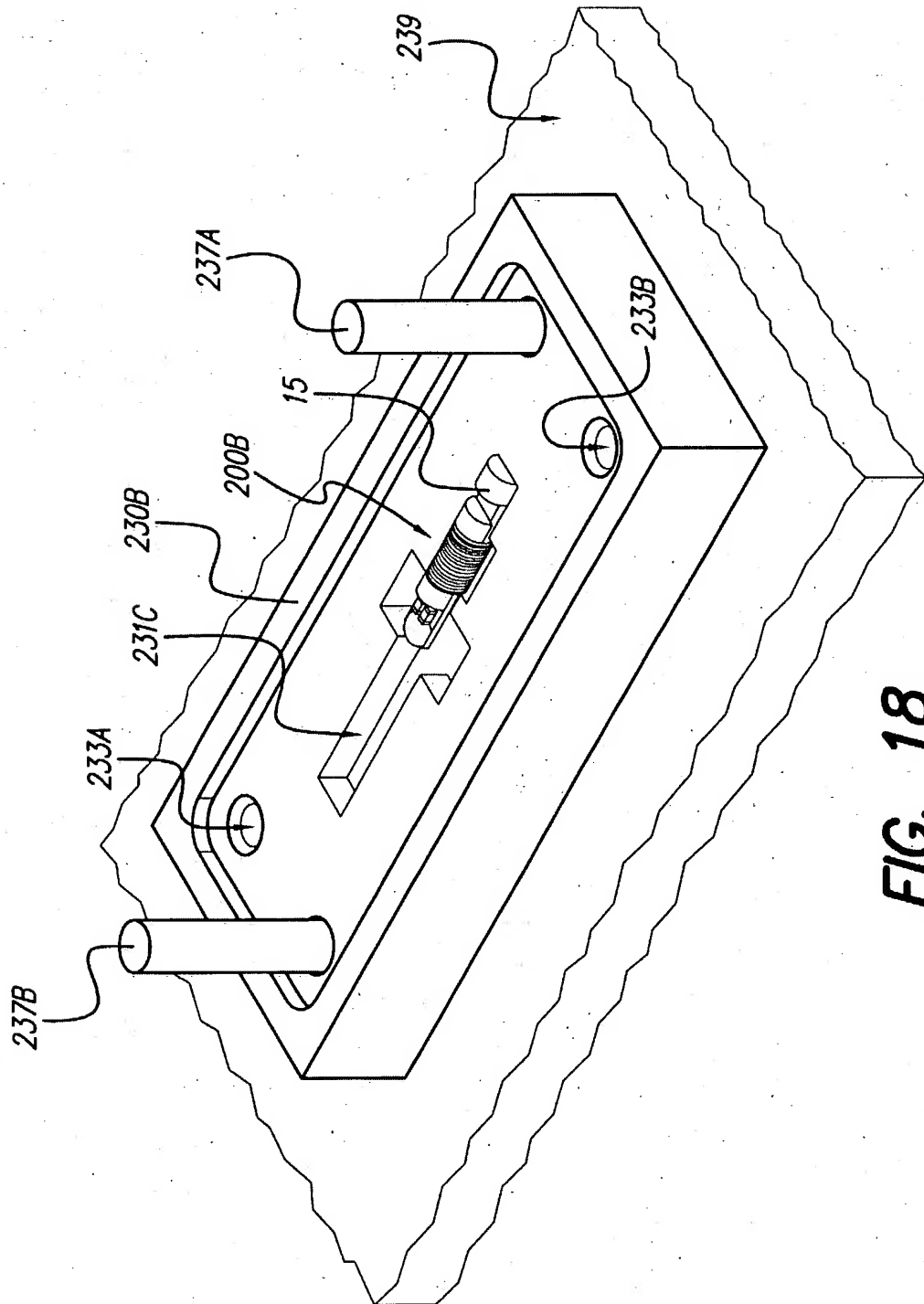


FIG. 18

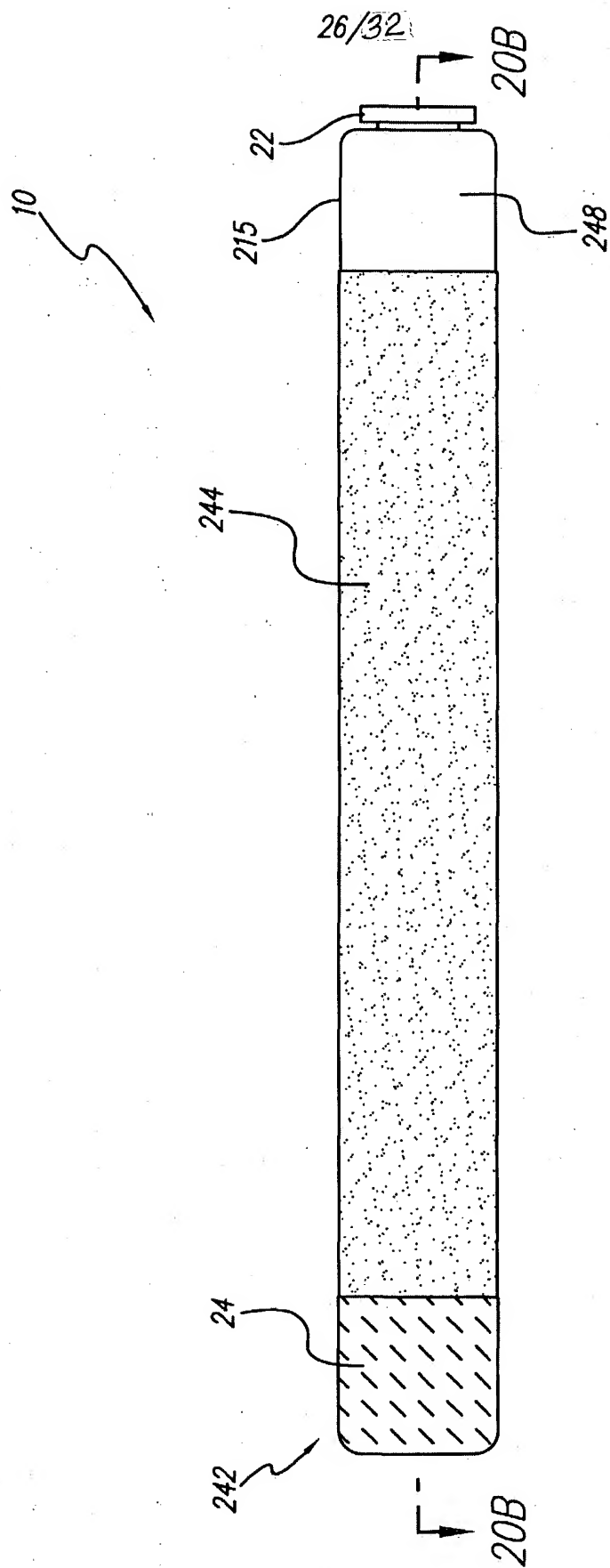


FIG. 20A

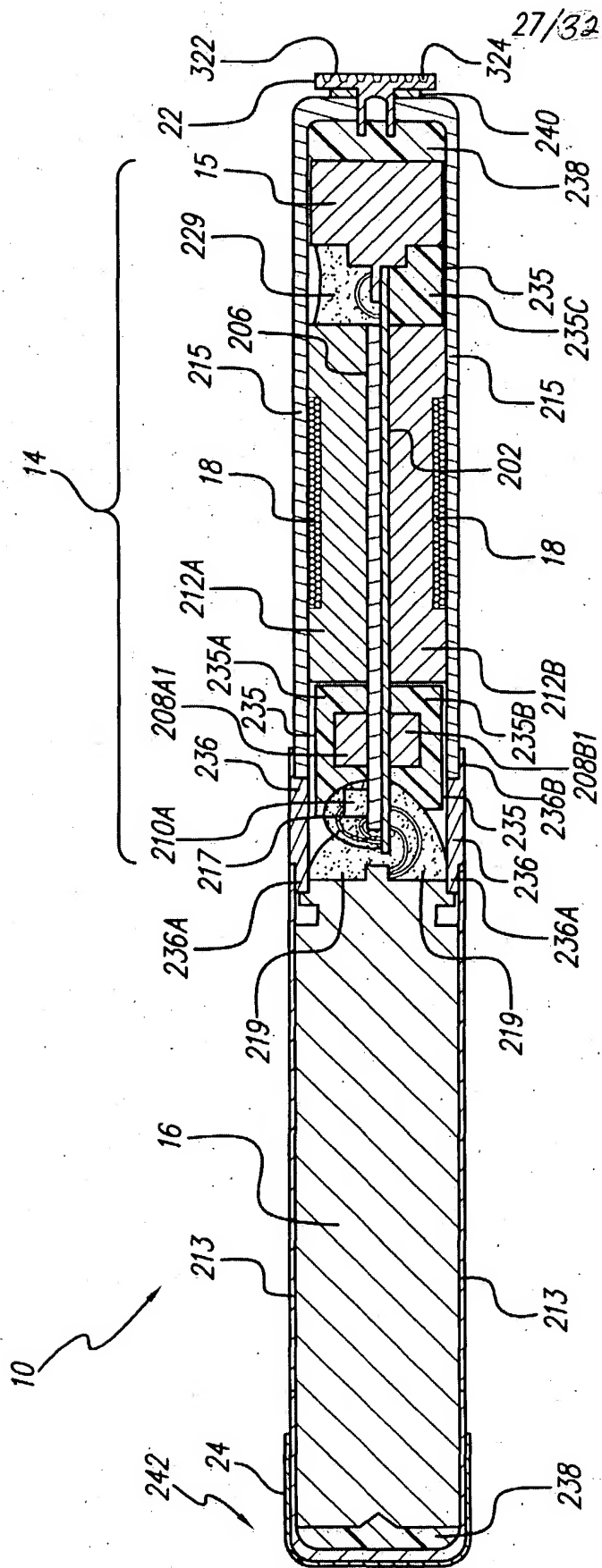


FIG. 20B

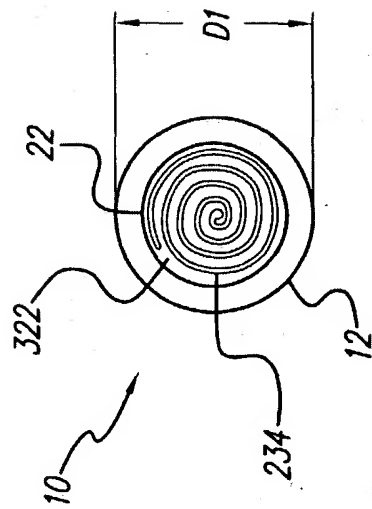


FIG. 20C

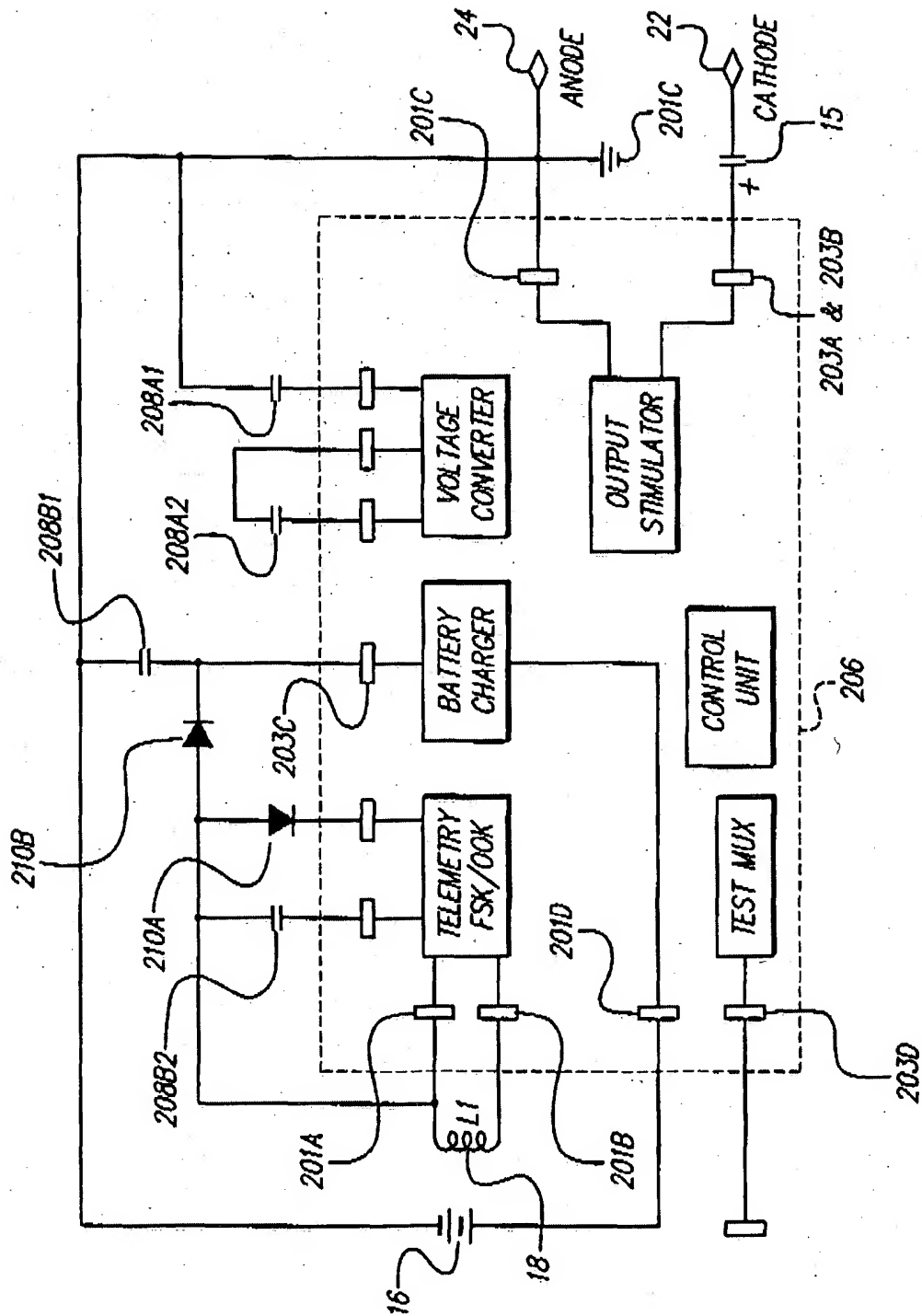


FIG. 21

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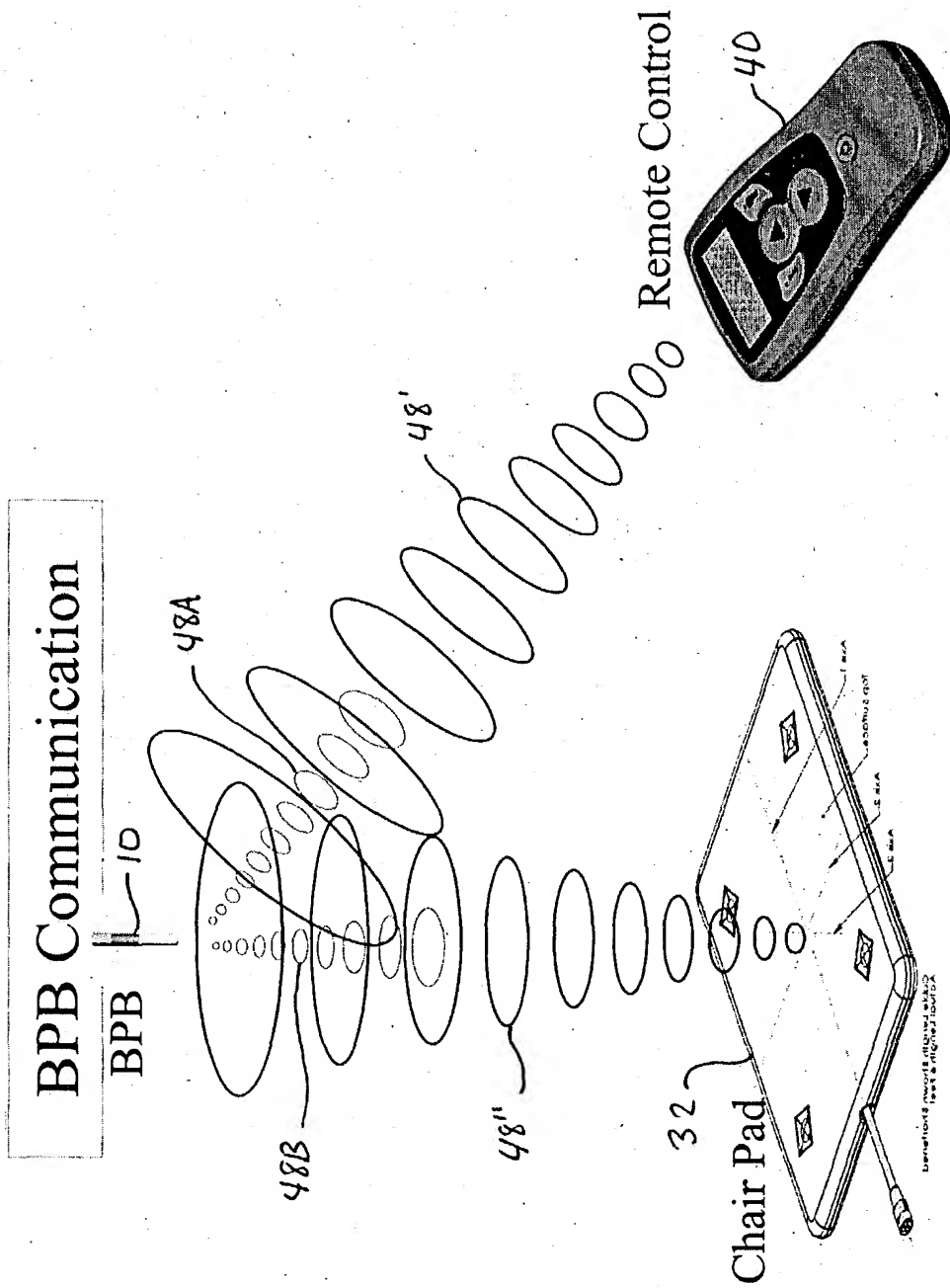
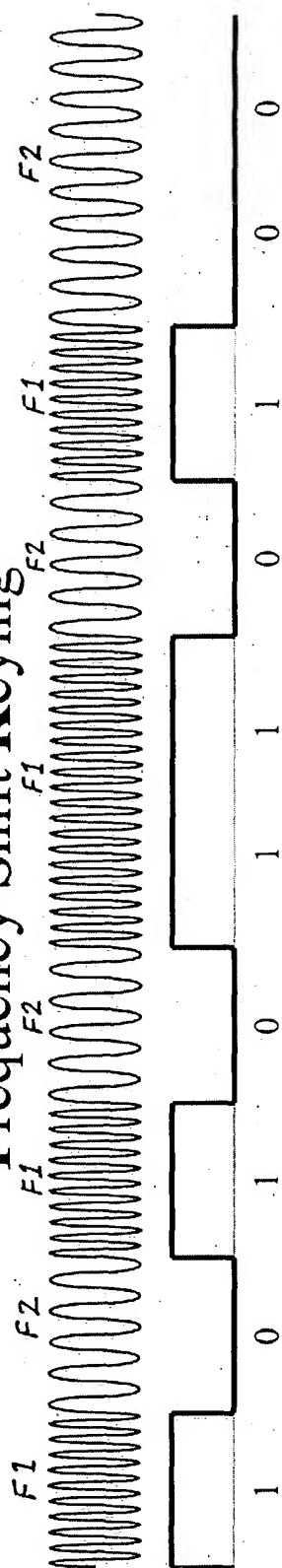


FIG. 22

Frequency Shift Keying



On-Off Keying

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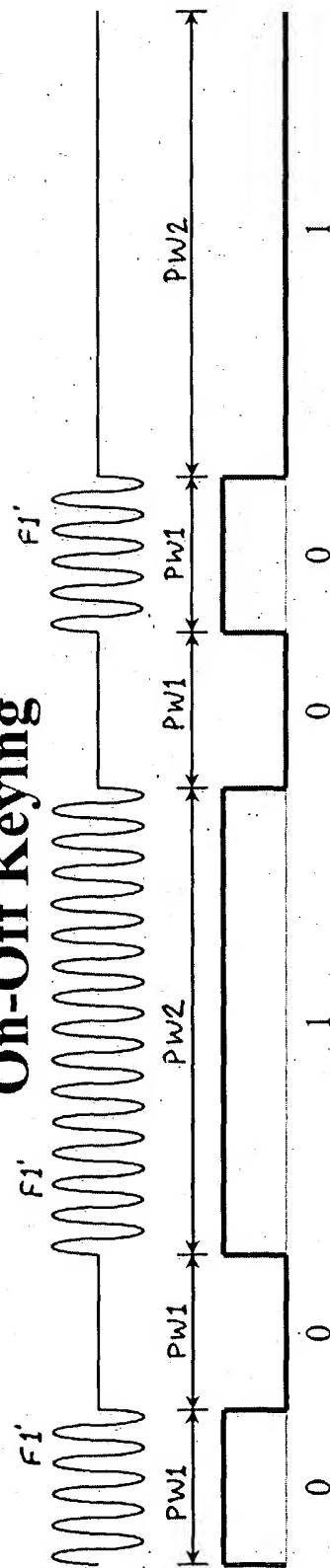


FIG. 23

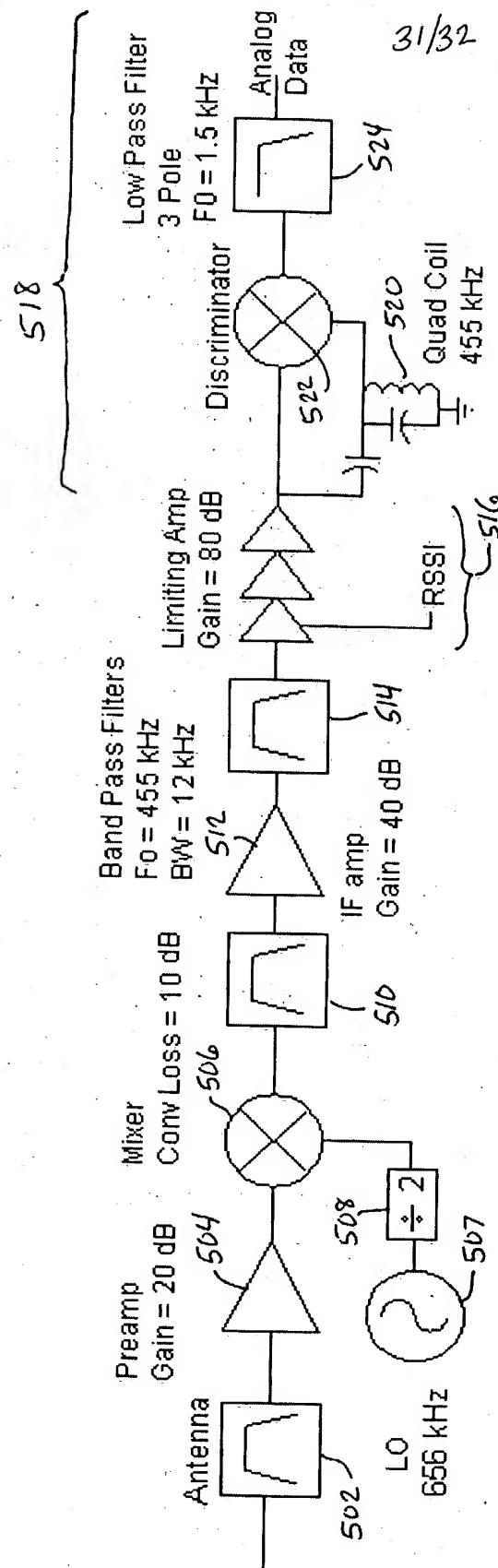


FIG. 24

BION IMPLANT FSK RECEIVER/TRANSMITTER

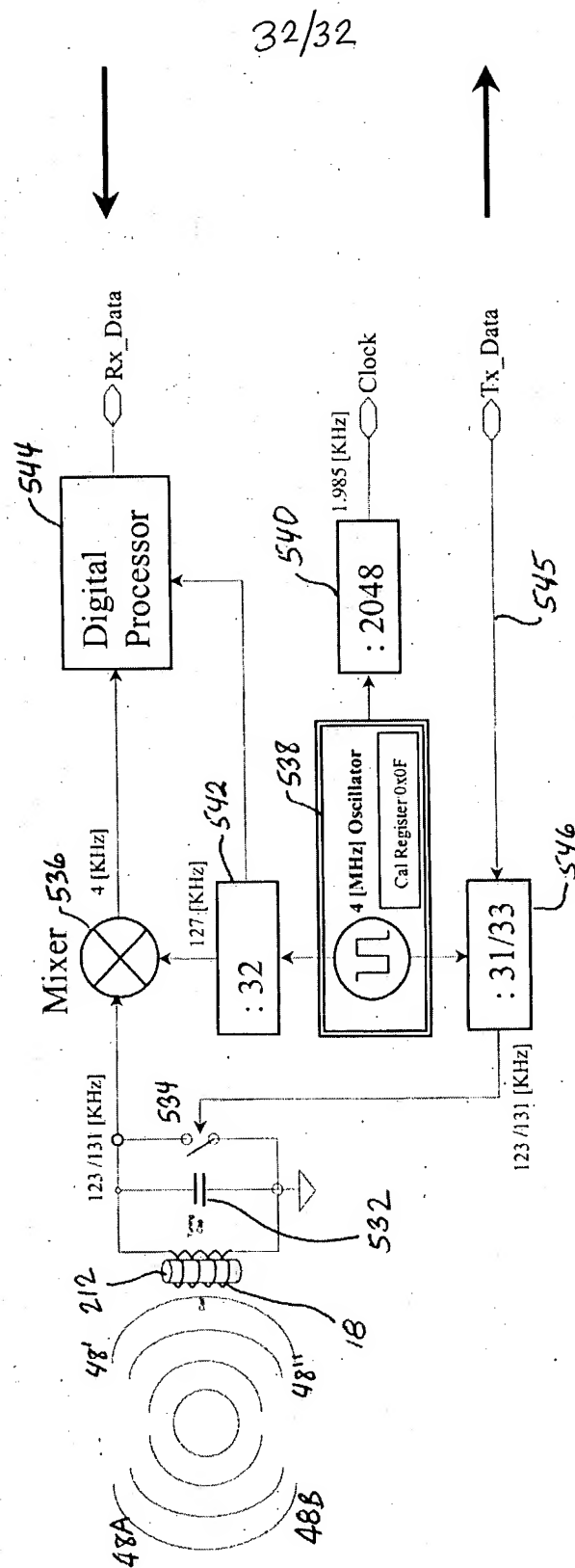


FIG. 25